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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/562,463	02/19/2008	David Elata	P-8471-US 6216		
	7590 04/27/2019 dek Latzer, LLP	EXAMINER			
1500 Broadway		BAYOU, AMENE SETEGNE			
12th Floor New York, NY	10036	ART UNIT	PAPER NUMBER		
,			3746		
			MAIL DATE	DELIVERY MODE	
			04/27/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Astion Communication		Application	n No.	Applicant(s)				
		10/562,46	3	ELATA ET AL.				
	Office Action Summary	Examiner		Art Unit				
		AMENE S	BAYOU	3746				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
2a)⊠	Responsive to communication(s) filed on 2 This action is FINAL . 2b) Since this application is in condition for all closed in accordance with the practice und	This action is no owance except	on-final. for formal matters, pro		e merits is			
Dispositi	on of Claims							
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 1-22 is/are pending in the applica 4a) Of the above claim(s) 2-4,13-15,21 and Claim(s) is/are allowed. Claim(s) 1,5-12 and 16-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction a on Papers The specification is objected to by the Exercision in a point of the specification is objected to by the Exercision.	<u>d 22</u> is/are witho		ion.				
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 12/27/05 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 								
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	8)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,5-9,11-12 are rejected under 35 U.S.C 102(b) as being unpatentable over Perlov et al (4498850).
- 3. In re claim 1, Perlov et al disclose a pumping apparatus including:
 - A device ,in figure 1,for inducing motion on fluids or solids, the device comprising: a circular structure with a deformable circular sheet
 (8;figure 2 and column 4,lines 35-39) compressed to form a structural wave (figure 3C); and an actuator (electromagnet belts 19-31;column 6,lines 13-21) for actuating the deformable circular sheet (8) and driving the structural wave in a predetermined manner and direction.
- 4. In re claim 5, Perlov et al disclose a pumping apparatus including:
 - A first wall is provided against the deformable sheet so as to define a first conduit (6) between the first wall and the deformable sheet (8), figure 4.
- 5. In re claim 6, Perlov et al disclose a pumping apparatus including:
 - The first conduit (6) is provided with an inlet (44) and an outlet (50) ,figure 4.
- 6. In re claim 7, Perlov et al disclose a pumping apparatus including:

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A second wall positioned opposite the first wall, with the deformable
 sheet (8) between the walls, the second wall defining a second conduit
 (also called as 6; figure 1) between the second wall and the
 deformable sheet (8), figure 1.

- 7. In re claim 8, Perlov et al disclose a pumping apparatus including:
 - The second conduit (also called as 6; figure 1) is provided with an inlet (46) and an outlet (48), in figure 4.
- 8. In re claim 9, Perlov et al disclose a pumping apparatus including:
 - The actuator (electromagnet belts 19-31; column 6, lines 13-21) is selected from the group consisting of electrostatic actuators, piezoelectric actuators, thermoelastic actuators and magnetic actuators.
- 9. In regards to the claims **11-12**, **16-20**, Perlov et al disclose a method of inducing motion on fluids since under the principles of inherency, if a prior art device, in its normal and usual operation, would necessarily perform the method claims, then the method claimed will be considered to be anticipated by the prior art device. When the prior art device is the same as a device described in the specification for carrying out the claimed method, it can be assumed the device will inherently perform the claimed process. In re King, 801 F.2d 1324,231 MPEP 2112.02".

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the

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subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 11. Claim 10 is rejected under 35 U.S.C 103(a) as being unpatentable over Perlov et al (4498850) as applied to claim 1 in view of Drevet (6659740).
- 12. In re claim 10 Perlov et al as applied to claim 1 disclose the claimed invention except the following limitation which is taught by Drevet: Derevet teach a similar diaphragm pump including:
 - At least a part (21) of the device is made from silicon. It would have
 been obvious to one skilled in the art at the time the invention was made
 to modify the pump of Perlov et al by making the diaphragm from
 silicone as taught by Drevet in order to accurately manufacture the
 device by photolithographic technique.

Response to Arguments

- 13. Applicant's arguments with respect to claims 1,5-12 and 16-20 have been considered but are not persuasive.
- 14. In re claims 1,5-12 and 16-20 applicant amended independent claims 1 and 11 by changing the phrase "deformable sheet " to "deformable circular sheet" and argued that Perlov et al do not teach or disclose such feature. Examiner disagrees. As pointed out in the rejection of claims above Perlov et al clearly disclose a deformable circular sheet labeled as (8) in figure 2 and also described in column 4, lines 35-39.

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Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amene S. Bayou whose telephone number is 571-270-3214. The examiner can normally be reached on Monday-Thursday, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on 571-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/ Supervisory Patent Examiner, Art Unit 3746

/Amene S Bayou/

Examiner, Art Unit 3746